WEST Search History

Hide Items   Restore   Clear   Cancel

DATE: Thursday, November 08, 2007

Hide?	Set Name	Query	Hit Count
		DB=PGPB; PLUR=YES; OP=ADJ	
☐	L3	l1 and l2	2
☐	L2	halogenated unsaturated carbonyl compound or halogen containing unsaturated carbonyl compound or halogenated unsaturated alkoxy ketone or halogenated unsaturated alkoxy aldehyde.CLM.	2
☐	L1	alkoxy cyclic ether or alkoxytetrahydrofuran.CLM.	2

END OF SEARCH HISTORY

```
=> d his

       (FILE 'HOME' ENTERED AT 13:50:40 ON 08 NOV 2007)

       FILE 'CASREACT' ENTERED AT 13:51:13 ON 08 NOV 2007
L1               STRUCTURE UPLOADED
L2           0 S L1
L3           1 S L1 FULL

       FILE 'HCAPLUS' ENTERED AT 13:51:58 ON 08 NOV 2007
L4           1 S L3

       FILE 'HCAPLUS, HCAOLD, USPATFULL, EPFULL' ENTERED AT 13:52:33 ON 08 NOV
       2007
L5         285 S ALKOXY CYCLIC ETHER OR ALKOXYTETRAHYDROFURAN OR TETRAHYDROFUR
L6          51 S L5 AND (HALOGENATING AGENT OR HALOGENATING REAGENT OR ACID HA
L7         646 S HALOGENATED UNSATURATED CARBONYL COMPOUND OR HALOGENATED ALKO
L8           5 S L6 AND L7
```

```
L1      STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1              STR
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.


=> s l1
SAMPLE SEARCH INITIATED 13:51:46 FILE 'CASREACT'
SCREENING COMPLETE -        0 REACTIONS TO VERIFY FROM        0 DOCUMENTS

100.0% DONE        0 VERIFIED        0 HIT RXNS                0 DOCS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED VERIFICATIONS:        0 TO        0
PROJECTED ANSWERS:              0 TO        0

L2              0 SEA SSS SAM L1 (     0 REACTIONS)

=> s l1 full
FULL SEARCH INITIATED 13:51:49 FILE 'CASREACT'
SCREENING COMPLETE -        1 REACTIONS TO VERIFY FROM        1 DOCUMENTS

100.0% DONE        1 VERIFIED        1 HIT RXNS                1 DOCS
SEARCH TIME: 00.00.01

L3              1 SEA SSS FUL L1 (     1 REACTIONS)

=> d scan

L3   1 ANSWERS   CASREACT   COPYRIGHT 2007 ACS on STN

TI   Process for the preparation of halogenated unsaturated carbonyl compound

RX(2) OF 3
```
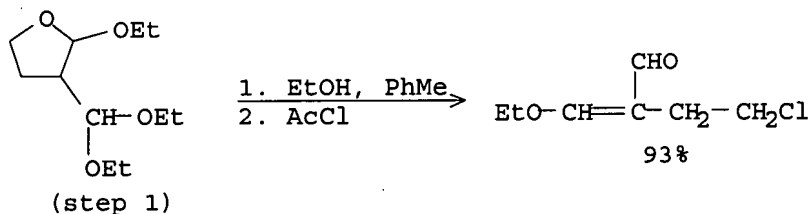
```
              1. EtOH, PhMe
              2. AccCl
                                              CHO
                                               |
                              EtO—CH═C—CH₂—CH₂Cl
                                        93%
(step 1)

NOTE: alternative prepn. shown



ALL ANSWERS HAVE BEEN SCANNED


=> file hcaplus
COST IN U.S. DOLLARS                    SINCE FILE        TOTAL
                                          ENTRY          SESSION
FULL ESTIMATED COST                      113.55          113.76

FILE 'HCAPLUS' ENTERED AT 13:51:58 ON 08 NOV 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)
```

FILE COVERS 1907 - 8 Nov 2007 VOL 147 ISS 20
FILE LAST UPDATED: 7 Nov 2007 (20071107/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

 This file contains CAS Registry Numbers for easy and accurate
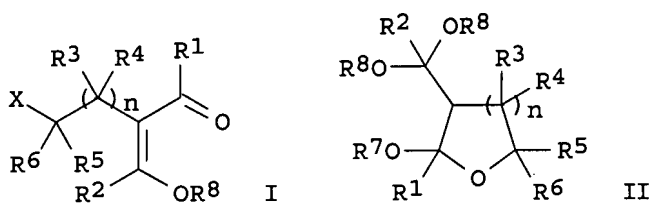 substance identification.

=> s 13
L4   1 L3

=> d ibib abs hitstr

L4   ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:1103726 HCAPLUS
DOCUMENT NUMBER: 143:386683
TITLE: Process for the preparation of halogenated unsaturated
                           carbonyl compound
INVENTOR(S):   Koyakumaru, Kenichi; Hayashibara, Tatsuhiko; Akiba,
                           Toshifumi; Saito, Tatsuru
PATENT ASSIGNEE(S):   Kuraray Co., Ltd., Japan; Daiichi Pharmaceutical Co.,
                           Ltd.
SOURCE: PCT Int. Appl., 14 pp.
                           CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

        PATENT NO.   KIND   DATE   APPLICATION NO.   DATE
        ---------------   ----   --------   --------------------   --------
        WO 2005095317   A1   20051013   WO 2005-JP6414   20050325
             W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
                 CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
                 GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
                 LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
                 NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM,
                 SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
             RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
                 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
                 EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
                 RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
                 MR, NE, SN, TD, TG
        EP 1731494   A1   20061213   EP 2005-727497   20050325
             R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
                 IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR
        US 2007197836   A1   20070823   US 2006-593200   20060915
PRIORITY APPLN. INFO.:   JP 2004-104866   A   20040331
                                               WO 2005-JP6414   W   20050325
OTHER SOURCE(S):   CASREACT 143:386683; MARPAT 143:386683
GI

Formula I structure (left):

$$X\!-\!\underset{R^6\ \ R^5}{\overset{R^3\ \ R^4\ \ R^1}{C}}\!\!\left(\ \right)_n\ \underset{\underset{OR^8}{R^2}}{C}\!=\!C\!-\!\overset{O}{C}\!-\!R^1 \qquad \text{I}$$

Formula II structure (right):

$$\text{II}$$

(Structures I and II as drawn)

AB   A process for producing a halogenated unsatd. carbonyl compound represented by the general formula I [R1-R6 = independently H, (un)substituted saturated hydrocarbon, aryl, alkenyl or aralkyl; R8 = (un)substituted saturated hydrocarbon, aryl or aralkyl, X = halo] by reacting a compound represented by the general formula II [R1-R6, R7 and R8 are defined as above] with an acid halide is disclosed. For example, reaction of tri-Et orthoformate with 2,3-dihydrofuran to produce 3-(diethoxymethyl)-2-ethoxytetrahydrofuran (99.7%), and followed by chlorination with acetyl chloride, gave 4-chloro-2-ethoxymethylidenebutanal in 93% yield.

REFERENCE COUNT: 6   THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
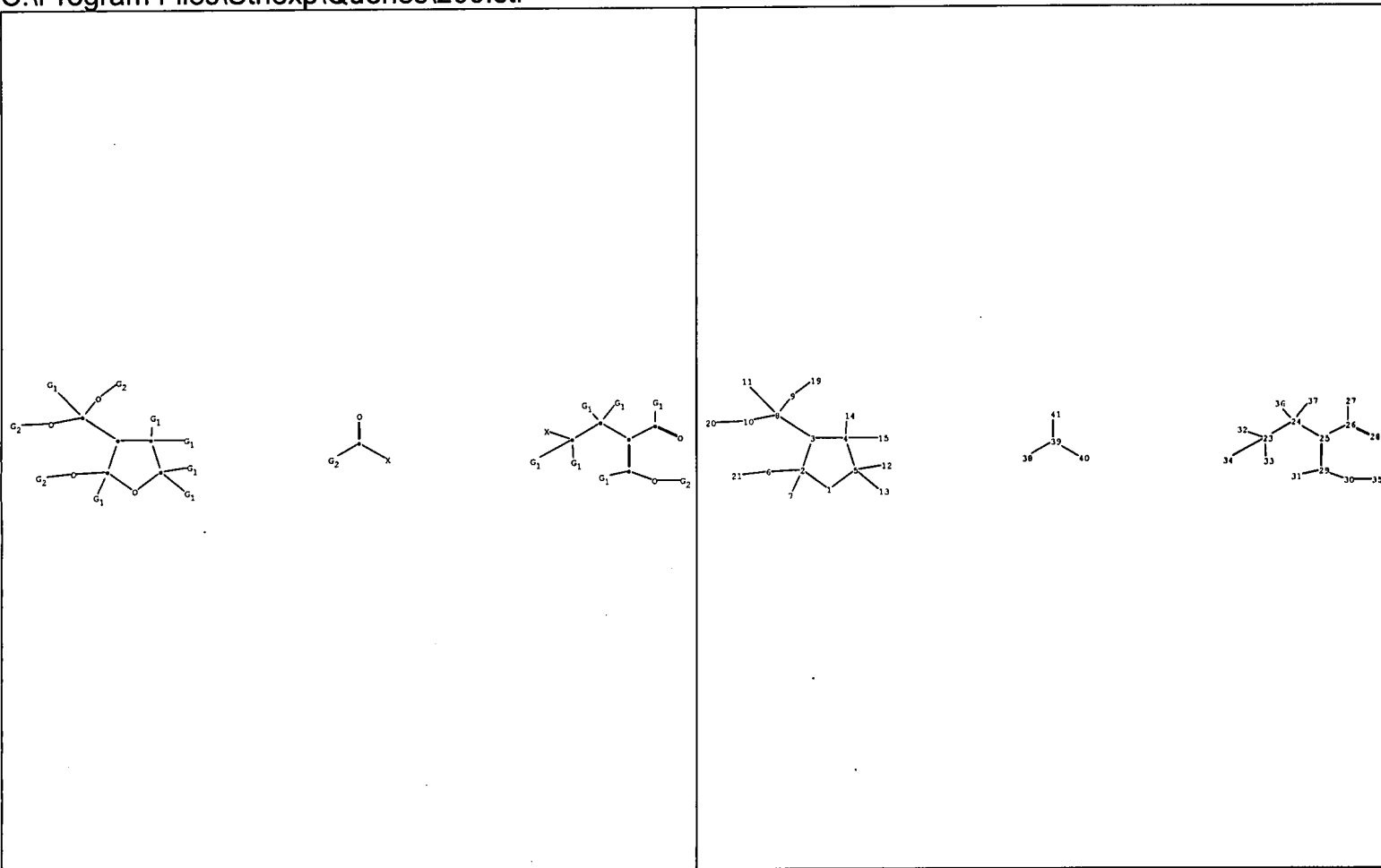
chain nodes :
   6 7 8 9 10 11 12 13 14 15 19 20 21 23 24 25 26 27 28 29 30 31 32 33 34 35 36
   37 38 39 40 41
ring nodes :
   1 2 3 4 5
chain bonds :
   2-6 2-7 3-8 4-14 4-15 5-12 5-13 6-21 8-9 8-10 8-11 9-19 10-20 23-24 23-32 23-33 23-34
   24-25 24-36 24-37 25-26 25-29 26-27 26-28 29-30 29-31 30-35 38-39 39-40 39-41
ring bonds :
   1-2 1-5 2-3 3-4 4-5
exact/norm bonds :
   1-2 1-5 2-3 2-6 2-7 3-4 4-5 4-14 4-15 5-12 5-13 6-21 8-9 8-10 8-11 9-19 10-20 23-33
   23-34 24-36 24-37 26-27 26-28 29-30 29-31 30-35 38-39 39-41
exact bonds :
   3-8 23-24 23-32 24-25 25-26 25-29 39-40

G1:H,Cb,Ak

G2:Cb,Ak

Match level :
   1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS
   12:CLASS 13:CLASS 14:CLASS 15:CLASS 19:CLASS 20:CLASS 21:CLASS 23:CLASS 24:CLASS 25:CLASS
   26:CLASS

27:CLASS28:CLASS29:CLASS30:CLASS31:CLASS32:CLASS33:CLASS34:CLASS35:CLASS
36:CLASS37:CLASS38:CLASS39:CLASS40:CLASS41:CLASS

fragments assigned product role:
    containing 23
fragments assigned reactant/reagent role:
    containing 1
    containing 38